

5. A semiconductor processing method comprising:

a masking step providing a common mask; and

an implant step carried out through the common mask, comprising conducting a halo implant of devices formed over a substrate comprising memory circuitry and peripheral circuitry sufficient to impart to at least three of the devices three different respective threshold voltages.

D) 6. The method of claim 5, wherein said three devices comprise peripheral circuitry.

7. The method of claim 5, wherein said three devices comprise NMOS field effect transistors.

8. The method of claim 5, wherein said three devices comprise NMOS field effect transistors comprising peripheral circuitry.

9. The method of claim 5, wherein the three devices comprise PMOS field effect transistors.

10. The method of claim 5, wherein said three devices comprise PMOS field effect transistors comprising peripheral circuitry.

11. The method of claim 5, wherein the common masking step comprises masking only portions of some of the devices which receive the halo implant, said portions comprising portions of peripheral circuitry devices.

12. The method of claim 5, wherein:

the common masking step comprises masking only portions of some of the devices which receive the halo implant;

said devices which receive the halo implant comprise NMOS field effect transistors; and

said portions comprise portions of peripheral circuitry devices.

13. The method of claim 5, wherein:

the common masking step comprises masking only portions of some of the devices which receive the halo implant;

said devices which receive the halo implant comprise NMOS field effect transistors having source regions and drain regions; and

said portions comprise portions of peripheral circuitry devices, wherein said masking comprises masking only one of the source region and drain region for one of the three devices, and exposing both of the source region and drain region for another of the three devices.

14. The method of claim 5, wherein:

the common masking step comprises masking only portions of some of the devices which receive the halo implant;

said devices which receive the halo implant comprise PMOS field effect transistors; and

D1
said portions comprise portions of peripheral circuitry devices.

15. The method of claim 5, wherein:

the common masking step comprises masking only portions of some of the devices which receive the halo implant;

said devices which receive the halo implant comprise PMOS field effect transistors having source regions and drain regions; and

said portions comprise portions of peripheral circuitry devices, wherein said masking comprises masking only one of the source region and drain region for one of the three devices, and exposing both of the source region and drain region for another of the three devices.
